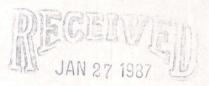
## GREAT SALT LAKE MINERALS & CHEMICALS CORPORATION A SUBSIDIARY OF GULF RESOURCES & CHEMICAL CORPORATION P.O. BOX 1190 • 765 N. 10500 W. LITTLE MOUNTAIN • OGDEN, UTAH 84402 TEL. (801) 731-3100 • TWX (910) 971-5910



DIVISION OF OIL, GAS & MINING MAX J. REYNOLDS VICE PRESIDENT OPERATIONS

January 10, 1987

Mr. Lowell P. Braxton
Acting Administrator
Mineral Resource Development and
Reclamation Program
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84114

Dear Mr. Braxton:

Enclosed please find:

- 1. Updated Annual Operations and Progress Report.
- 2. GSL drawings Nos. 800-11-05-019 and 800-11-05-020 previously submitted. The acreage is essentially unchanged.

All other documents filed remain unchanged.

Respectfully,

Max J. Reynolds

MJR:na

Enclosures

MR Form 3 (Revised 1984)

## ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 1986 to Month/Year January 1987

(To be submitted for  $\underline{each}$  mining operation at the end of  $\underline{each}$  calendar year to the Division at this  $\underline{address}$ :)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR:	GSL	MINE NAME:	Great Salt Lake Minerals
ADDRESS:	765 North 10500 West		
	Ogden, Utah		
PERMIT NUMB	BER AND DATE OF PERMIT:AC	T/057/002	September 2, 1982
REPRESENTAT	IVE: M. J. Reynolds		
SECTION(S):	(As previsouly filed-No chan	iges)	RANGE(S):
MINERAL(S)	MINED: Grave1/Rock		
STATE AND/O No changes	R FEDERAL MINERAL LEASE NUMBER from those previously submit	ERS:	
	PERMITS AND/OR RIGHTS-OF-WAY		

& Chem.

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an  $\underline{\text{up-dated map}}$  and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

## MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Volume Actually Salvaged ( $yd^{3}$  or ac ft)

Surplus or Deficit Volume ( $yd^3$  or ac ft)

Storage Status (short- or long-term)

Volume Required for Reclamation ( $yd^3$  or ac ft)

Disturbance	Acreage		
Pit Roads Facilities Waste Dumps Other			
(b) Tabulation of acreage aff	ected to date (by years).		
Date by Year	Acreage (Total		
and date of stockpiling. None	91 141.3 (9 leased) 167 (9 leased) Same area as previous  (new) stockpile volumes (see chart below)  TABULATION CHART		
Area Affected (in mining sequence (If more space is needed, please	Area 1 2 3 etc. attach.)		
Acreage of Area			
Depth of Topsoil Removal (inches)			
Depth of Topsoil Replacement (inches)*			
Estimate of Topsoil Volume Salvaged (yd <sup>3</sup> or ac ft)			

2.

Roads.

Soil Tabulation Chart (continued)					
Area Affected (in mining sequence)	ī	Area 2 3 etc.			
Storage Location					
Area Where Soil Has Been Used (if not stored)		•			
Running Total (all stockpiles) (ya³ or ac ft)					
Short-term					
Long-term					
*Of previously stripped area recently reclaimed.  (a) Tabulation of all (newly removed) out-of-pit splacement and illustration on a map.  Area  Date	spoil	volumes, date of  Acreage			
(e) Tabulation of quantity of commodity mined.					
Commodity		Tonnage			
(Mined)(Milled)					
<ul><li>(f) Description of any new construction during the illustration on a map, including, but not limited to:</li><li>1. Buildings and support facilities.</li></ul>	e rep	ort period with			

3.	Diversion ditches, collector ditches, interceptor ditches, etc.
4.	Culverts.
5.	Sediment ponds, containment ponds.
6.	Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).
7.	Topsoil stockpiles.
for mitigation	ription of any environmental problem areas with a proposed plan on and illustration on a map, including, but not limited to:  Pit stability problems.
2.	Subsidence.

3.	Accidental water discharge, dam f	ailure, etc.
4.	Slumping, sliding or erosion.	
5.	Revegetation problem areas.	
6.	Existence and location of unsuita	ble (toxic) overburden.
_		
RECLAMATION	<u>\:</u>	
(a) Tab illustratio	oulation of the acreage reclaimed dur on on a map, distinguishing between:	ring the report perioa with
1.	. Backfilled, graded and contoured	areas.
	Area	Acreage
2.	. Topsoiled areas.	
	Area	Acreage

3. Seeded areas.

	J. Seeded areas.		
	Area		Acreage
Refer	to Drawing #800-11-5-019		8 acres
No cha	nge from previously subm	Little Mountain itted	1 acre
	4. Reseeded areas (ar	eas previously seed	ed, then seeded again).
	Area		Acreage
Non	e		
(b) to date	Tabulation of total acre by years with illustrati	age reclaimed (seed on on an updated ma	ed with permanent seed mix)
	<u>Year</u>		Acreage
(c) period,	1975 1976 1977 1978 80 1979 81 1980 82 1981 83 1982 84 1983 85 1984 86 Description of the recla including:		1 acre 1 acre 10 acres None sed during the report
	2. Type of seea (spec	ies) used for seedi	ng during the report period.
			•

3. Date of seeding during the report period.
Spring
Fall
4. Seeding procedures used.
(Hand broadcast or drilled or any other).
5. Rate of seed application.
Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)
6. Type and rate of fertilizer applied.
7. Type and rate of mulch applied.
8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).
9. Revegetation test plot information.
(Cover, density, productivity, etc.)

10.	Soil analysis results.
(d) Desci (This should	ription of results of previous revegetation efforts, including: be done as applicable.)
1.	Types (species) of seed that have germinated and are growing.
2.	Types (species) of seed that are not growing successfully.
3.	Areas experiencing problems with weeds and weed types.
4.	Significant erosional problems.
5.	Areas of unsuitable overburden on the surface as related to revegetation failure.
6.	Procedures used or proposed to correct these problems.

	7	<ol> <li>Acreage and dates revegetated areas.</li> </ol>	of release	(upon inspection	n by the State) of
	Area		Date		Acreage
	8	Results of soil ar	alysis.		
rep.	(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.				
			Ac	res	Cost/Acre
4.	Seedir A. Se B. Mu	lling ring l Replacement g edbed Preparation lch ertilizer			
BONE	INFOF	MATION:			
A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.					
		Amou	nt	Туре	Date Posted
Pres	sent Bo	nd \$250,	000	Surety	3-11-83

Increased disturbance, if any:

None

Increased Bond Amount (attached reclamation estimate).

Bond release.

Acres	Bond Amount Released	Date
	<del></del>	

## ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

(a) Permit stipulations (status).(b) Other special conditions (status).